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L3: Entry 6 of 6

File: USPT

Jan 17, 1989

DOCUMENT-IDENTIFIER: US 4799156 A
** See image for Certificate of Correction **
TITLE: Interactive market management system

Application Filing Date (1):
19861001

Detailed Description Text (45):

As an additional service, a supplier who has scheduled a shipment of less than a truckload on a particular route, may advertise the available space on the system bulletin board thereby enabling other shippers to share the freight costs. The supplier may limit the type or identity of shippers who may share the route with it utilizing the system 50. Thus, the system 50 can serve as the primary communications link between a supplier and its carriers. Using services available through the system, such as conversational sessions, the alert feature, and mail services provides unique efficiencies in the supplier's freight department.

Current US Original Classification (1):
705/26

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L6: Entry 1 of 1

File: USPT

Jan 17, 1989

US-PAT-NO: 4799156

DOCUMENT-IDENTIFIER: US 4799156 A

**** See image for Certificate of Correction ****

TITLE: Interactive market management system

DATE-ISSUED: January 17, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shavit; Eyal	New York	NY		
Teichner; Lester	Chicago	IL		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Strategic Processing Corporation	New York	NY			02

APPL-NO: 06/914172 [PALM]

DATE FILED: October 1, 1986

INT-CL-ISSUED: [04] G06F 15/21

US-CL-ISSUED: 364/401; 364/408

US-CL-CURRENT: 705/26; 705/28, 705/39, 705/40, 705/42, 705/44

FIELD-OF-CLASSIFICATION-SEARCH: 364/400-408, 364/2MSFile, 364/9MSFile, 340/825.26, 340/825.27, 340/825.28

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>3573747</u>	April 1971	Adams et al.	340/825.27 X
<input type="checkbox"/> <u>3688276</u>	August 1972	Quinn	364/200
<input type="checkbox"/> <u>4186438</u>	January 1980	Benson et al.	364/200
<input type="checkbox"/> <u>4346442</u>	August 1982	Musmanno	364/408
<input type="checkbox"/> <u>4376978</u>	March 1983	Musmanno	364/408

<input type="checkbox"/>	<u>4449186</u>	May 1984	Kelly et al.	364/900 X
<input type="checkbox"/>	<u>4674044</u>	June 1987	Kalmus et al.	364/408
<input type="checkbox"/>	<u>4677552</u>	June 1987	Sibley, Jr.	364/408
<input type="checkbox"/>	<u>4694397</u>	September 1987	Grant et al.	364/408

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
1489572	October 1977	GB	364/408

OTHER PUBLICATIONS

Electronic Data Interchange.

United States Electronic Data Interchange (EDI) Standards, The Electronic Data Interchange Association, 1985.

Networking: Japan's Latest Computer Craze, Fortune, July 7, 1986.

ART-UNIT: 236

PRIMARY-EXAMINER: Smith; Jerry

ASSISTANT-EXAMINER: MacDonald; Allen

ATTY-AGENT-FIRM: Welsh & Katz, Ltd.

ABSTRACT:

A system for interactive on-line electronic communications and processing of business transactions between a plurality of different types of independent users including at least a plurality of sellers, and a plurality of buyers, as well as financial institutions, and freight service providers. Each user can communicate with the system from remote terminals adapted to access communication links and the system may include remote terminals adapted for storage of a remote data base. The system includes a data base which contains user information. The data base is accessed via a validation procedure to permit business transactions in an interactive on-line mode between users during interactive business transaction sessions wherein one party to the transaction is specifically selected by the other party. The system permits concurrent interactive business transaction sessions between different users.

43 Claims, 34 Drawing figures

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<u>L6</u> 4799156.pn.		1	<u>L6</u>
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<u>L2</u> 705/26-27.ccls.		1591	<u>L2</u>
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1. Document ID: US 6338050 B1

L3: Entry 1 of 6

File: USPT

Jan 8, 2002

US-PAT-NO: 6338050

DOCUMENT-IDENTIFIER: US 6338050 B1

TITLE: System and method for providing and updating user supplied context for a negotiations system



2. Document ID: US 6336105 B1

L3: Entry 2 of 6

File: USPT

Jan 1, 2002

US-PAT-NO: 6336105

DOCUMENT-IDENTIFIER: US 6336105 B1

TITLE: System and method for representing data and providing electronic non-repudiation in a negotiations system



3. Document ID: US 6332135 B1

L3: Entry 3 of 6

File: USPT

Dec 18, 2001

US-PAT-NO: 6332135

DOCUMENT-IDENTIFIER: US 6332135 B1

TITLE: System and method for ordering sample quantities over a network



4. Document ID: US 6324522 B1

L3: Entry 4 of 6

File: USPT

Nov 27, 2001

US-PAT-NO: 6324522
DOCUMENT-IDENTIFIER: US 6324522 B1

TITLE: Electronic information network for inventory control and transfer

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [TOC](#) | [Drawings](#)

5. Document ID: US 6141653 A

L3: Entry 5 of 6

File: USPT

Oct 31, 2000

US-PAT-NO: 6141653
DOCUMENT-IDENTIFIER: US 6141653 A
** See image for Certificate of Correction **

TITLE: System for interactive, multivariate negotiations over a network

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [TOC](#) | [Drawings](#)

6. Document ID: US 4799156 A

L3: Entry 6 of 6

File: USPT

Jan 17, 1989

US-PAT-NO: 4799156
DOCUMENT-IDENTIFIER: US 4799156 A
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TITLE: Interactive market management system

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [TOC](#) | [Drawings](#)

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L4: Entry 2 of 45

File: JPAB

Sep 25, 1998

PUB-NO: JP410253639A
DOCUMENT-IDENTIFIER: JP 10253639 A
TITLE: DISPENSING DEVICE

PUBN-DATE: September 25, 1998

INVENTOR-INFORMATION:

NAME	COUNTRY
ARISUZU, KAZUNORI	
URUSHIBARA, HIDEO	

ASSIGNEE-INFORMATION:

NAME	COUNTRY
KK PROD K DESIGN JIMUSHO	

APPL-NO: JP09060936
APPL-DATE: March 14, 1997

INT-CL (IPC): G01 N 35/10; G01 F 11/00; G01 N 1/00

ABSTRACT:

PROBLEM TO BE SOLVED: To enable the sharing of the design and major parts of a transferring head part and to accelerate the improvement of production efficiency, cost down, and delivery by combining beds and rotating machines whose amount of rotation can be freely set and moving a liquid transferring container in three directions to a predetermined location by the rotation of the rotating machines.

SOLUTION: A transferring head 3 is configured as a unit of a rotating machine 4 (a lengthwise rotating machine 4a, a crosswise rotating machine 4b, and a vertical rotating machine 4c) and a bed 5 (a lengthwise bed 5a, a crosswise bed 5b, and a vertical bed 5c). The beds 5a to 5c are combined with the rotating machines 4a to 4c, respectively. By the rotation of the rotating machine 4 whose amount of rotation can be set in forward and reverse directions, a liquid transferring container 2 can be moved lengthwise, crosswise, and vertically. As the transferring of a liquid, which is the most fundamental operation of a dispensing device 1, is performed only by the transferring head 3 in this way, it is possible to match the lengths of the bed 5a to 5c to various specifications from the origin of orders, and programs in a control circuit 6 is modified according to it so as to match those specifications.

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L4: Entry 3 of 45

File: JPAB

Aug 12, 1997

PUB-NO: JP409210407A

DOCUMENT-IDENTIFIER: JP 09210407 A

TITLE: FULL AIR-TYPE SNOW ICE AIR CONDITIONING SYSTEM UTILIZING SNOW-ICE-AIR DIRECT CONTACTING HEAT EXCHANGING OPERATION

PUBN-DATE: August 12, 1997

INVENTOR-INFORMATION:

NAME

COUNTRY

MATSUMOTO, HISAO

INT-CL (IPC): F24 F 3/00; F24 F 3/16

ABSTRACT:

PROBLEM TO BE SOLVED: To realize a long term storing, an aging storing and a planned shipment management of agricultural products through a warehouse air conditioning, and further realize a gardening environmental air conditioning, working space air conditioning for a building or a department store or the like, a comfortable air conditioning of a collected dwelling space and a stabilized low cost air conditioning for a city common sharing space as found in an underground city or the like.

SOLUTION: This system regulates a loading chamber and a load environment by a method wherein the system is comprised of some functional locations such as a taking-out of stabilized cold heat through an opening work of stored snow and ice in a snow and ice storing chamber, air dividing flow, short- circuited flow of air, surrounding air feeding-in, air-flow mixing, heating and air volume control or the like in an air mixing and adjusting block having a dust-removing device and a gas filter and connecting a cold heat source block to the loading chamber.

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L5: Entry 20 of 28

File: USOC

Dec 20, 1966

DOCUMENT-IDENTIFIER: US 3292341 A
TITLE: Orienting and packing apparatus

OCR Scanned Text (11):

United States Patent Office 3,292,341 3,292,341 ORIENTING AND PACKING APPARATUS James D. Frost, P.O. Box 775, Porterville, Calif. 93257 Filed Aug. 27, 1963, Ser. No. 304,824 21 Claims. (Cl. 53-61) This invention relates to apparatus for arranging substantially uniform articles in a predetermined relationship and depositing such articles in a receiving container while maintaining said relationship. The invention provides individual means to perform, separate measures in accomplishing the overall objective of packing such articles in a receiving container in predetermined order and arrangement, and also includes interlock means to insure the successive performance of such measures in accordance with a predetermined schedule. To effect a maximum utilization of the internal volume of packing containers, many types of articles are advantageously arranged in a predetermined order to accommodate such utilization. In addition, the inherent characteristics of the articles require a predetermined order of arrangement in the packing container to preclude shifting of the articles after packing. Otherwise, such shifting, particularly during transit, causes damage to the articles. This is particularly true in the case of fresh fruits, the arranging and packing of which are ably performed by apparatus of the present invention. The present invention is particularly well suited for the arranging and packing of fresh fruit which is capable of being graded according to size prior to shipment. For purposes of convenient illustration, the present invention is described in the connection with the arranging and packing of fresh oranges, it being understood that the invention is equally well-suited to other types of substantially uniform articles to be packed in a predetermined arrangement. Heretofore, the majority of fresh oranges packed in containers for shipment to geographical locations removed from the growing area have been manually packed. Such packing is predominantly performed by temporarily employed agricultural laborers, many of whom are considered of the migratory type in that successive temporary periods of employment involves successive movements from one geographical area to another in which the crop then, being harvested has been grown. Although the performance of such workers is normally satisfactory, it will be appreciated that non-uniform results are achieved, due to personal differences in such workers. In addition, considerable cost is incurred in their recruitment and training, and unfortunately, such personnel are sometimes totally unavailable during a short, but critical, harvesting period. The cost of manually packaging oranges, as well as other types of articles herein the units of the type are substantially uniform, normally represents a disproportionate share of the total cost of producing and preparing such articles for shipment. Therefore, a need has also existed for apparatus which can perform equivalent, or superior, packing at a cost substantially less than that of manual packing. To effect such efficient packing, means must be provided for sequentially pre-orienting the articles, transporting the articles to the shipping container, and depositing the articles therein. Power means employed to perform such sequential steps of operation must be controlled to effect the successive performance of such steps. Such a control should ideally include an interlock to prevent any single step from being performed in a non-sequential order. Accordingly, it is an object of the

present invention to provide apparatus adapted to perform a completely automated packing, - of substantially uniform articles. Atented Dec. 20, 1966 2 Another object is to provide packing apparatus adapted to perform the sequential operations of arranging a plurality of such articles in a predetermined order and packing such articles in a receiving container while maintaining said order. Another object of the invention is to provide a pick-up means which is specifically adapted for -ripping a plurality of substantially uniform articles arranged in a predetermined order. 10 Another object is to provide in a,completely automated packing apparatus a control system to insure the sequential successive steps of arranging such articles in a predetermined order, gripping the articles, and transporting them to a packing container, and depositing said articles in the 15 container while maintaining their predetermined order of arrangement. These, together with other objects, will become more fully apparent upon reference to the following description and accompanying drawings. 20 In the drawings: FIG. 1 - is a top plan view of packing apparatus embodying the principles of the present invention and includes a supply means for the articles to be packed and a supply of packing containers in which the articles are to be deposited in predetermined quantities and a predetermined order of arrangement. FIG. 2 is a view in side elevation, partly in vertical section, of the apparatus shown in FIG. 1, portions thereof being shown schematically. 30 FIG. 3 is an enlarged fragmentary view in horizontal section taken -on line 3-3 of FIG. 2, portions of the power means and control therefor being shown schematically. FIG. 4 is a view in longitudinal vertical section taken 35 on line " of FIG. 3 ' FIG. 5 is a fragmentary view in transverse vertical section taken at a plane represented by the line 5-5 of FIG. 3. FIG. 6 is a fragmentary view in side elevation of one 40 of the pick-up heads employed in the present invention and showing the individual gripping fingers holding a plurality of the articles to be packed. FIG. 7 is a fragmentary bottom plan view of the pickup head of FIG. 6. 4.5 FIG. 8 is an enlarged perspective view of the rigid members of one of the gripping fingers provided on each pickup head at each corner thereof. FIG. 9 is like FIG. 8 showing the complete finger, including the expandable member thereof. 50 FIG. 10 is a view in horizontal section taken on line 10-10 of FIG. 9. FIG. 11 is an enlarged perspective view of the rigid member of one of the lateral gripping fingers. FIG. 12 is like FIG. 11 showing the complete finger 5,5 structure, including the expandable member thereof. FIG. 13 is a view in horizontal section taken on line 13-13 of FIG. 12. FIG. 14 is a perspective view of one of the intermediate gripping fingers of the pickup heads. 60 FIG. 15 is a view in horizontal section taken on line 15-15 of FIG. 14. FIG. 16 is an enlarged fragmentary view in vertical longitudinal section of one of the movable stops mounted in the orienting station provided in the apparatus. 65 FIG. 17 is a composite view at a reduced scale in longitudinal vertical section similar to FIG. 4 but somewhat schematic and partly in vertical transverse section taken on line A-A of FIG. 17, showing the supply gate at the terminal portion of its closing cycle and with the charging station filled with articles. FIG. 18 is like FIG. 17, portions of the control circuitry being shown schematically, with the supply gate

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